

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581944

Luminaire Tested: **HCC6W20D010MW-HM60525930-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010MW-HM60525930-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

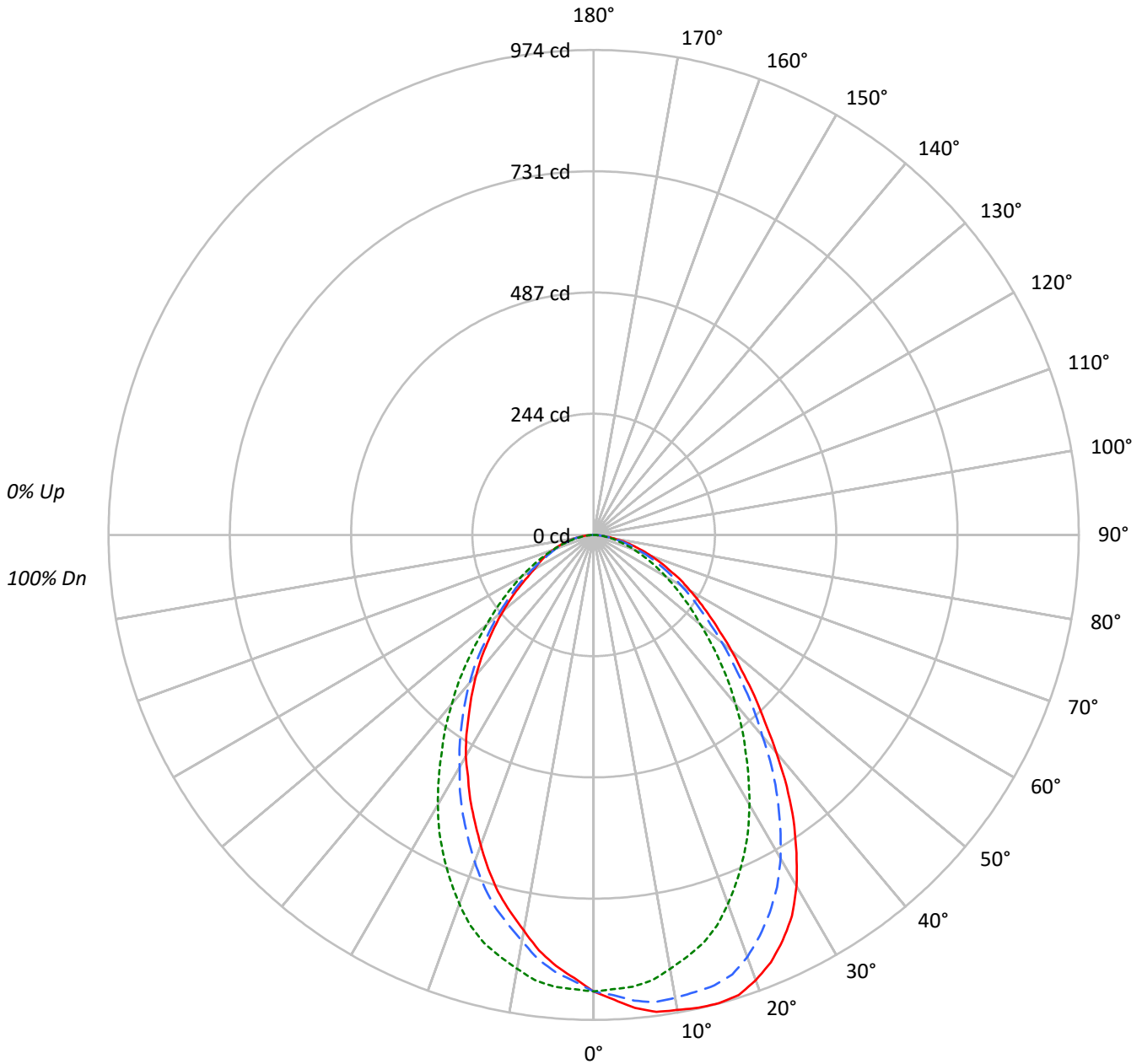
Lumens per Lamp: N/A  
Luminaire Lumens: 1707.9 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P581944  
CATALOG NUMBER: HCC6W20D010MW-HM60525930-61WWW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P581944

CATALOG NUMBER: HCC6W20D010MW-HM60525930-61WWW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	50259	50259	50259
5°	52493	50115	47810
10°	53924	49253	44922
15°	55256	48184	42094
20°	55503	46006	38661
25°	54342	43067	35452
30°	51552	39601	32499
35°	46826	35590	29152
40°	40798	31702	26228
45°	35306	27747	23057
50°	30831	23888	20204
55°	27249	20998	17337
60°	24483	18398	15021
65°	21922	16007	14567
70°	19571	13656	13656
75°	16987	11501	12814
80°	13638	9723	11681
85°	9309	8554	10127



TEST NUMBER: P581944  
 CATALOG NUMBER: HCC6W20D010MW-HM60525930-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	5.0
10°-20°	239.5	14.0
20°-30°	333.8	19.5
30°-40°	344.0	20.1
40°-50°	285.1	16.7
50°-60°	204.9	12.0
60°-70°	130.5	7.6
70°-80°	67.0	3.9
80°-90°	17.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	659.5	38.6
0°-40°	1003.5	58.8
0°-60°	1493.4	87.4
0°-90°	1707.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	917	917	917	917	917	
5°	954	939	911	881	869	91
15°	974	937	849	771	742	274
25°	898	837	712	621	586	412
35°	700	643	532	462	436	435
45°	455	423	358	312	297	352
55°	285	262	220	195	181	257
65°	169	151	123	107	112	169
75°	80	69	54	57	60	86
85°	15	14	14	15	16	19
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P581944

CATALOG NUMBER: HCC6W20D010MW-HM60525930-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	916.8	916.8	916.8	916.8	916.8	916.8	916.8	916.8	916.8
2.5°	934.2	930.4	925.5	920.6	913.2	904.5	897.1	894.6	891.0
5°	953.9	949.0	939.0	926.8	910.7	894.6	881.1	872.4	868.8
7.5°	966.2	960.1	946.5	925.5	902.1	878.6	858.9	846.6	841.6
10°	968.7	962.5	944.0	915.7	884.8	852.7	828.0	813.3	807.0
12.5°	972.5	963.7	940.3	907.0	867.5	830.5	799.7	781.1	775.0
15°	973.6	963.7	936.7	895.9	849.0	804.5	771.2	749.0	741.7
17.5°	968.7	957.6	925.5	876.1	823.1	776.2	736.7	713.2	703.4
20°	951.4	939.0	902.1	846.6	788.6	739.2	698.5	673.8	662.7
22.5°	929.2	913.2	871.2	812.0	751.5	699.7	659.0	634.3	623.2
25°	898.4	883.5	836.6	773.7	712.0	657.7	620.7	594.8	586.1
27.5°	862.6	845.3	797.2	734.2	671.3	617.0	581.2	557.8	546.7
30°	814.4	798.4	750.3	687.4	625.6	575.0	538.1	518.2	513.4
32.5°	757.6	744.2	697.2	638.0	578.7	531.8	501.0	480.1	475.1
35°	699.7	683.7	642.9	587.3	531.8	489.9	461.5	443.0	435.6
37.5°	636.7	621.9	587.3	538.1	488.7	449.2	424.5	408.4	401.1
40°	570.1	559.0	527.0	487.4	443.0	408.4	387.5	373.9	366.5
42.5°	508.4	497.3	475.1	438.0	401.1	370.2	351.7	339.3	333.2
45°	455.4	445.5	423.3	391.2	357.9	332.0	312.3	303.5	297.4
47.5°	402.3	397.3	377.6	347.9	317.1	294.9	281.3	271.5	266.6
50°	361.5	355.4	336.8	306.0	280.1	262.9	250.5	241.9	236.9
52.5°	319.6	313.4	296.2	270.2	249.3	233.3	220.9	213.5	208.6
55°	285.1	280.1	261.6	238.2	219.7	206.1	195.0	186.4	181.4
57.5°	253.0	248.0	230.8	208.6	192.5	180.1	170.3	162.9	156.7
60°	223.3	219.7	202.4	181.4	167.8	155.4	146.8	140.7	137.0
62.5°	197.5	190.0	175.3	156.7	144.3	134.5	125.9	122.1	124.6
65°	169.0	165.3	150.6	134.5	123.4	113.5	107.4	109.8	112.3
67.5°	145.6	140.7	128.4	113.5	103.7	96.3	92.6	97.4	98.7
70°	122.1	117.3	106.2	93.8	85.2	80.2	80.2	84.0	85.2
72.5°	99.9	96.3	86.3	76.5	70.4	66.6	69.1	71.6	72.9
75°	80.2	76.5	69.1	60.5	54.3	54.3	56.8	59.3	60.5
77.5°	61.7	59.3	51.8	45.7	43.2	43.2	45.7	46.9	48.2
80°	43.2	40.7	37.0	33.3	30.8	33.3	35.8	35.8	37.0
82.5°	28.4	27.2	24.7	22.2	22.2	23.5	24.7	25.9	25.9
85°	14.8	14.8	13.6	12.3	13.6	14.8	14.8	16.1	16.1
87.5°	5.0	5.0	5.0	5.0	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)